

SOME SYNONYMS IN THE VENERIDÆ.

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THE following synonymy has been established in the course of examining the Veneridæ in the collections of the British Museum. Some of the conclusions arrived at have already been surmised by Dall, Römer, and others, but apparently in very few cases have the type specimens of Broderip, Sowerby, Reeve, and Deshayes been studied.

In the following list the first name in each case falls in synonymy and is equated to what I regard as the correct name for the species.

Cytherea nubila, Reeve, Conch. Icon., xiv, pl. vii, fig. 28, Jan. 1864 = *Tivela ventricosa* (Gray).

Cytherea ventricosa, Sowerby, Thes., ii, 613, pl. cxxvii, fig. 6, 1851 = *Tivela ventricosa* (Gray).

Cytherea undulata, Sowerby, l.c., 618, pl. cxxvii, fig. 12, 1851 = *Tivela planulata* (Brod. & Sow.).

Cytherea virginea, A. Adams and Reeve, Zool. "Samarang", Moll., 78, pl. xxiv, fig. 10, 1848 = *Tivela stultorum* (Mawe). How this Californian shell got into the "Samarang" collections is a mystery.

Cytherea piperita, Sowerby, l.c., 626, pl. cxxxvi, fig. 175, 1851 = *Macrocallista florida* (Lam.).

Meretrix grata, Deshayes, Cat. Conch. Brit. Mus., 40, 1853 = *Macrocallista lilacina* (Lam.).

Dione ustulata, Reeve, Conch. Icon., xiv, pl. xi, fig. 49, Oct. 1863 = *Pitaria citrina* (Lam.).

Chione badia, Gray, Analyst, viii, 306, 1838 = *Hysteroconcha unicolor* (Sow.).

Cytherea tortuosa, Broderip { Proc. Zool. Soc. Lond., 1835, 45, 1st
— *affinis*, Broderip { June, 1835 = *Hysteroconcha concinna* (Sow.).

Dosinia consobrina, Deshayes, l.c., 10, 1853 = *D. hepatica* (Lam.).

Dosinia circinaria, Deshayes, l.c., 9, 1853 = *D. crocea*, Desh.

Dosinia affinis, Deshayes, l.c., 7, 1853 = *D. concentrica*, Born.

Artemis nitens, Reeve, Conch. Icon., vi, pl. iii, fig. 12, Feb. 1850 = *D. concentrica*, Born.

Dosinia coryne, A. Adams, Proc. Zool. Soc. Lond., 1855, 223, 2nd Feb. 1856 = *D. cærulea* (Rve.).

Dosinia cydippe, A. Adams, l.c., 224, 2nd Feb. 1856 = *D. cærulea* (Rve.).

Dosinia diana, A. Ad. and Angas, Proc. Zool. Soc. Lond., 1863, 424, April, 1864 = *D. cærulea* (Rve.).

Dosinia eunice, A. Adams, Proc. Zool. Soc. Lond., 1855, 224, 2nd Feb. 1856 = *D. pubescens* (Ph.).

- Dosinia amethystina*, Römer, Proc. Zool. Soc. Lond., 1860, p. 118, June, 1860 = *D. lucinalis* (Lam.).
- Dosinia erythræa*, Römer, l.c., p. 117, June, 1860 = *D. radiata* (Rve.).
- Dosinia nobilis*, Deshayes, l.c., 7, 1853 = *D. incisa* (Rve.).
- Artemis lirata*, Sowerby, Thes., ii, 675, pl. clxiv, fig. 85, 1852 = *Dosinia histrio* (Gmel.).
- Artemis striatissima*, Sowerby, l.c., 673, pl. clxiii, fig. 71, pl. clxiv, fig. 84, 1852 = *Dosinia lucinalis* (Lam.).
- Dosinia ovalis*, Römer, Proc. Zool. Soc. Lond., 1860, p. 119, June, 1860 = *D. pubescens* (Ph.).
- Circe fulgurata*, Reeve, Conch. Icon., xiv, pl. ii, fig. 5, Oct. 1863 = *C. scripta* (L.).
- Circe sugillata*, Reeve, l.c., pl. iii, fig. 11, Oct. 1863 = *C. scripta* (L.).
- Circe trigona*, Reeve, l.c., fig. 12, Oct. 1863 = *C. scripta* (L.).
- Circe albida*, Deshayes, l.c., 84, 1853 = *C. scripta* (L.).
- Circe oblonga*, Deshayes, l.c., 86, 1853 = *C. scripta* (L.).
- Circe lenticularis*, Deshayes, l.c., 85, 1853 = *C. plicatina*, Lam.
- Cytherea quoyi*, Hanley, Cat. Rec. Shells, pl. xv, fig. 25 (footnote), 1844 = *Circe rivularis* (Born).
- Circe orbica*, Reeve, l.c., fig. 8, Oct. 1863 = *C. tumefacta*, Sow.
- Circe fumata*, Reeve, l.c., pl. viii, fig. 35, Oct. 1863 = *Gafrarium callipyga* (Born).
- Circe crachrodii* [*sic*], Gray, Analyst, viii, 307, 1838 = *Gafrarium callipyga* (Born).
- Circe pulchra*, Deshayes, l.c., 93, 1853 = *Gafrarium callipyga* (Born).
- Cytherea elliptica*, Sowerby, l.c., 645, pl. cxxxv, figs. 173, 174, 1851 = *Gafrarium callipyga* (Born).
- Cytherea subelliptica*, Sowerby, l.c., 644, pl. cxxxv, fig. 169, 1851 = *Gafrarium arabicum* (Lam.).
- Cytherea plebeia*, Hanley, Proc. Zool. Soc. Lond., 1844, 109 = *Gafrarium sulcatum* (Gray).
- Circe artemis*, Deshayes, l.c., 86, 1853 = *Gafrarium sulcatum* (Gray).
- Venus crispata*, Deshayes, l.c., 107, 1853 = *V. fischeri*, Récluz.
- Venus eburnea*, Reeve, Conch. Icon., xiv, pl. xiv, fig. 50, June, 1863 = *Ventricola oblonga* (Gray).
- Venus jukesi*, Deshayes } l.c., 100, 1853 = *Clausina toreuma* (Gould).
- Venus sculpta*, Deshayes }
- Chione retroversa*, Deshayes, l.c., 123, 1853 = *Clausinella foliacea* (Ph.).
- Venus roborata*, Hanley, Proc. Zool. Soc. Lond., 1844, 161 = *Clausinella placida* (Ph.).
- Venus alatus*, Reeve, l.c., pl. xviii, fig. 83, June, 1863 = *Clausinella paucilamellata* (Dkr.).
- Venus rostrata*, Sowerby, l.c., 717, pl. clvi, fig. 91, 1853 = *Anomalocardia cuneimeris* (Conrad).
- Venus tenuilamellata*, Sowerby, l.c., 733, pl. clxi, fig. 195, 1853 = *V. campechiensis*, Gmel.

- Venus sugillata*, Reeve, l.c., pl. xiii, fig. 43, June, 1863 = *Chione undatella* (Sow.).
- Venus bilineata*, Reeve, l.c., pl. xxii, fig. 105, June, 1863 = *Chione neglecta* (Sow.).
- Venus simillima*, Sowerby, l.c., 708, pl. cliii, figs. 17, 18, 1853 = *Chione neglecta* (Sow.).
- Venus ornatissima*, Broderip, Proc. Zool. Soc. Lond., 1835, 44, 1st June, 1835 = *Chione gnidia* (Brod. & Sow.).
- Venus histrionica*, Sowerby } Proc. Zool. Soc. Lond., 1835, 41, 1st
Venus fuscolineata, Sowerby } June, 1835 = *Chione grata* (Say).
- Venus discors*, Sowerby, Proc. Zool. Soc. Lond., 1835, 42, 1st June, 1835 = *Chione grata* (Say).
- Venus plumbea*, Reeve, l.c., pl. xvi, fig. 65, June, 1863 = *Chione granulata* (Gmel.).
- Venus intersecta*, Sowerby, Thes., ii, 714, pl. clv, figs. 59, 60, 1853 = *Chione pectorina*, Lam.
- Venus sphaerisulca*, "Deshayes MS.," in Reeve, l.c., pl. ii, fig. 6, is an error for *sphaericula*, Desh.
- Venus mundulus*, Reeve, l.c., pl. xiv, fig. 51, June, 1863 = *Protothaca staminea* (Conr.).
- Venus varicosa*, Sowerby, l.c., 723, pl. clv, fig. 67, 1853 = *Chione latilirata*, Conr.
- Chione regularis*, Deshayes, l.c., 146, 1853 = *C. japonica* (Gmel.).
- Venus labuana*, A. Ad. & Rve., Zool. "Samarang", Moll., 79, pl. xxi, fig. 16, 1848 = *Chione japonica* (Gmel.).
- Tapes ceylonensis*, Sowerby, l.c., 683, pl. cxlvi, figs. 24, 25, 1852 = *Chione opima* (Gmel.).
- Chione rudrata*, Deshayes, Cat. Conch. Brit. Mus., 136, 1853 = *Protothaca staminea* (Conr.).
- Tapes arctica*, Reeve, Conch. Icon., xiv, pl. x, fig. 52, Feb. 1864 = *Marcia nitida* (Q. & G.).
- Tapes faba*, Reeve, l.c., pl. viii, fig. 39, Feb. 1864 = *Marcia nitida* (Q. & G.).
- Tapes sinensis*, Reeve, Conch. Icon., xiv, pl. v, fig. 24, Jan. 1864 = *Hemitapes marmoratus* (Lam.).
- Tapes orientalis*, Reeve, l.c., pl. viii, fig. 34, Feb. 1864 = *Hemitapes marmoratus* (Lam.).
- Tapes bicolorata*, Reeve, l.c., pl. ix, fig. 42, Feb. 1864 = *Hemitapes marmoratus* (Lam.).
- Tapes ferruginea*, Reeve, l.c., pl. x, fig. 51, Feb. 1864 = *Hemitapes marmoratus* (Lam.).
- Tapes tenuistriata*, Sowerby, l.c., 687, pl. cxlviii, figs. 78, 79, 1852 = *Hemitapes marmoratus* (Lam.).
- Tapes ustulata*, Deshayes, l.c., 153, 1853 = *Hemitapes marmoratus* (Lam.). The name *ustulata* frequently appears in literature as *vitulata*, e.g. in Reeve, from a misreading of Deshayes' label in the Brit. Mus.

- Tapes turgidula*, Deshayes, l.c., 166, 1853 = *Paphia turgida* (Lam.).
Tapes similis, Deshayes, l.c., 167, 1853 = *Paphia dura* (Gmel.).
Tapes grata, Deshayes, l.c., 170, 1853 = *Paphia obscurata* (Desh.).
Tapes quadriradiata, Deshayes, l.c., 171, 1853 = *Paphia obscurata* (Desh.).
Tapes belcheri, Sowerby, l.c., 685, pl. cxlvii, figs. 50, 51, 1852 = *Paphia obscurata* (Desh.).
Tapes vernicosa, Reeve, l.c., pl. x, fig. 48, Feb. 1864 = *Paphia undulata* (Born).
Tapes lentiginosa, Reeve, l.c., pl. vi, fig. 25, Jan. 1864 = *Paphia gallus* (Gmel.).
Tapes biradiata, Deshayes, l.c., 170, 1853 = *Paphia luzonica* (Sow.).
Tapes punicea, Deshayes, l.c., 179, 1853 = *Paphia philippinarum* (A. Ad. & Rve.).
Tapes japonica, Deshayes, l.c., 181, 1853 = *Paphia philippinarum* (A. Ad. & Rve.).
Tapes variegata, Sowerby, l.c., 696, pl. cli, figs. 133-8, 1852 = *Paphia philippinarum* (A. Ad. & Rve.).
Venus tessellata, A. Ad. & Rve., Zool. "Samarang", Moll., 79, pl. xxii, fig. 11, 1848 = *Paphia philippinarum* (A. Ad. & Rve.).
Tapes denticulata, Sowerby, l.c., 694, pl. cl, fig. 114, 1852 = *Paphia philippinarum* (A. Ad. & Rve.).
Tapes semidecussata, Reeve, Conch. Icon., xiv, pl. xiii, fig. 67, March, 1864 = *Paphia philippinarum* (A. Ad. & Rve.).

The three following specific names in Martyn's Universal Conchologist have been overlooked and must be adopted:—

*Paphia cœlata*¹ (Martyn) for *P. ala-papilionis* (Bolten).

Meretrix nimbata (Martyn) for *M. morphina* (Lam.).

Meretrix virgulata (Martyn) for *M. lusoria* (Lam.).

The last two I regard as colour forms of *M. meretrix* (L.). The white shell with broad black area posterior to the umbones must, from Linné's reference to Argenville's figure, be taken as the type form of this species.

¹ In some copies of the work this is printed *cœlata*.